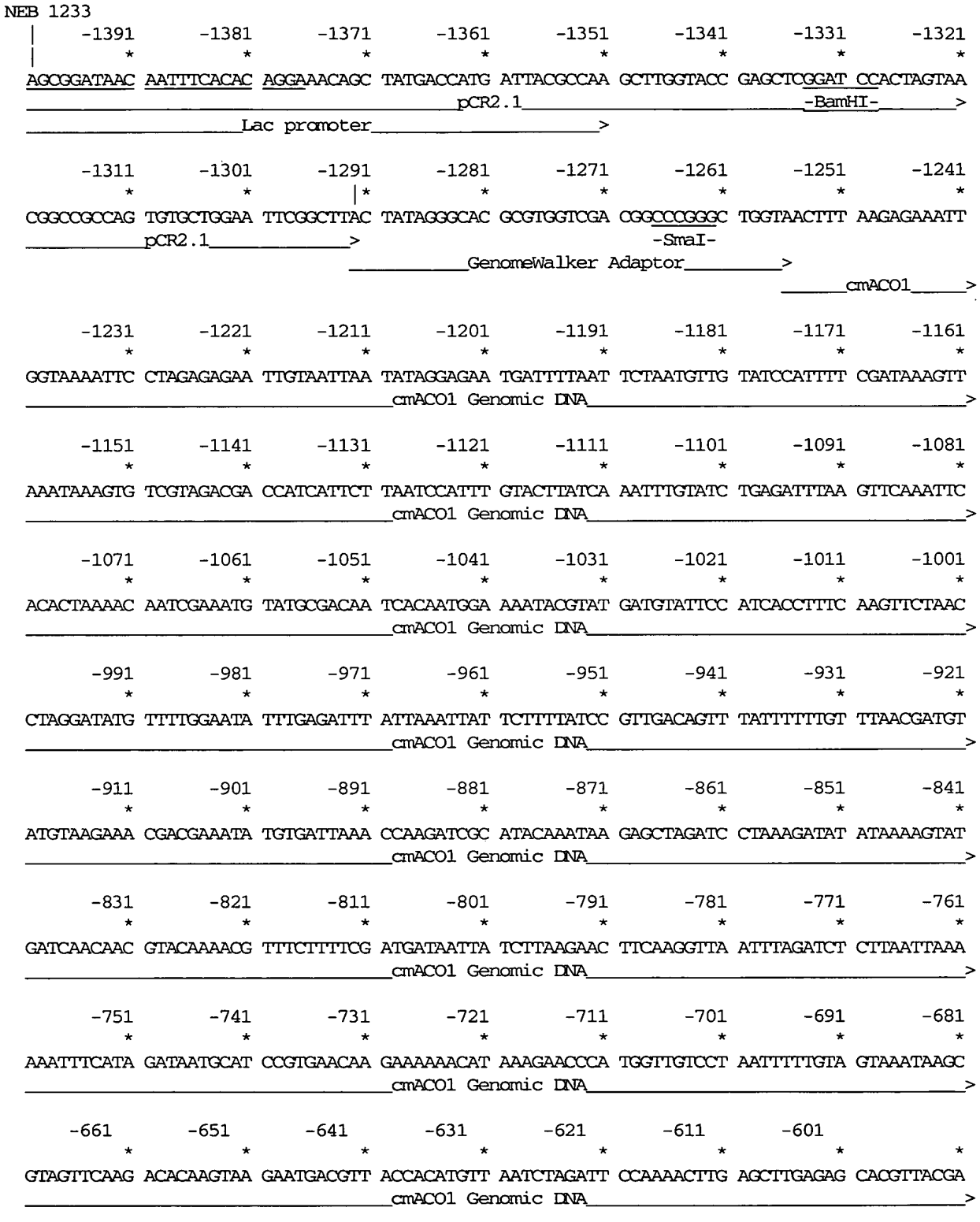

Fig. 1A

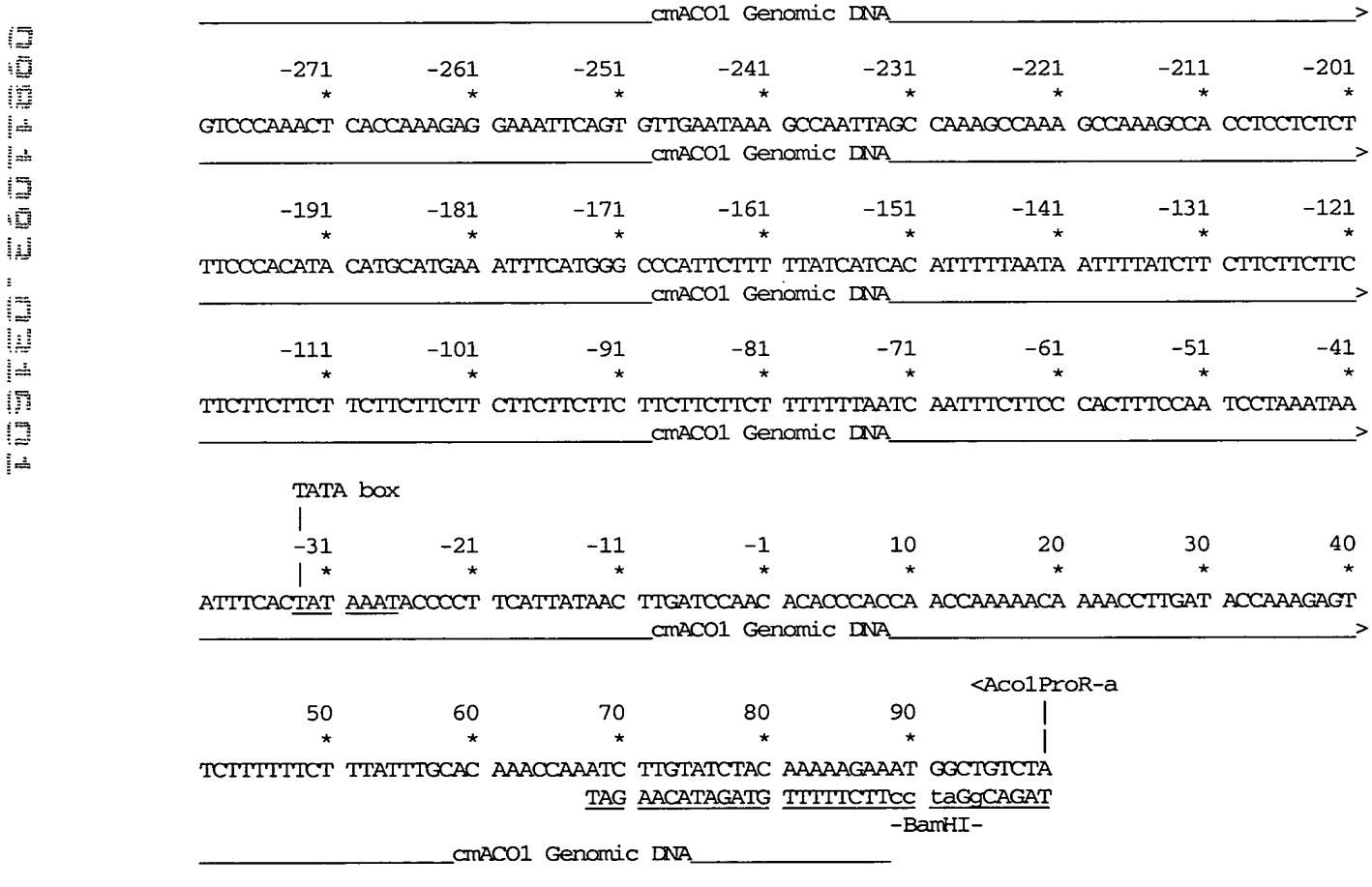

Fig. 1B

-1289 -1279 -1269 -1259 -1249 -1239 -1229 -1219

AGGAAACAGC TATGACCATG ATTACGCCAA GCTTAAGAGA AATTGGTAAA ATTCCTAGAG AGAATTGTAA TTAATATAGG

HindIII

pUC19

cmACO1 Genomic DNA >

-1209 -1199 -1189 -1179 -1169 -1159 -1149 -1139

AGAATGATTT TAATTCTAAT GTTGTATCCA TTTTCGATAA AGTTAAATAA AGTGTCGTAG ACGACCATCA TTCTTAATCC

cmACO1 Genomic DNA >

-1129 -1119 -1109 -1099 -1089 -1079 -1069 -1059

ATTTGTACTT ATCAAATTTG TATCTGAGAT TTAAGTTCAA ATTCACACTA AAACAATCGA AATGTATGCG ACAATCACAA

cmACO1 Genomic DNA >

-1049 -1039 -1029 -1019 -1009 -999 -989 -979

TGGAAAATAC GTATGATGTA TTCCATCACC TTTCAAGTTC TAACCTAGGA TATGTTTTGG AATATTTGAG ATTTATTAAA

cmACO1 Genomic DNA >

-969 -959 -949 -939 -929 -919 -909 -899

TTATTCTTTT ATCCGTTGAC AGTTTATTTT TTGTTTAACG ATGTATGTAA GAAACGACGA AATATGTGAT TAAACCAAGA

cmACO1 Genomic DNA >

-889 -879 -869 -859 -849 -839 -829 -819

TCGCATACAA ATAAGAGCTA GATCCTAAAG ATATATAAAA GTATGATCAA CAACGTACAA AACGTTTCTT TTCGATGATA

cmACO1 Genomic DNA >

-809 -799 -789 -779 -769 -759 -749 -739

ATTATCTTAA GAACTTCAAG GTTAATTTAG ATCTCTTAAT TAAAAAATTT CATAGATAAT GCATCCGTGA ACAAGAAAAA

cmACO1 Genomic DNA >

-729 -719 -709 -699 -689 -679 -669 -659

ACATAAAGAA CCCATGGTTG TCCTAATTTT TGTAGTAAAT AAGCGTAGTT CAAGACACAA GTAAGAATGA CGTTACCACA

cmACO1 Genomic DNA >

-649 -639 -629 -619 -609 -599 -589 -579

TGTTAATCTA GATTCCAAAA CTTGAGCTTG AGAGCACGTT ACGAAAATAA TCTACGAAAA CGAGTAAGTC GTCTAAGTTC

cmACO1 Genomic DNA >

-569 -559 -549 -539 -529 -519 -509 -499

GTTTTCGTTT ATTTGACACG TAAGATACTC GTATTGAAAG AAGACGAAAA ATGGAAAAAA GTAAAGAAGG TAAGGAGGTG

cmACO1 Genomic DNA >

Fig. 2A

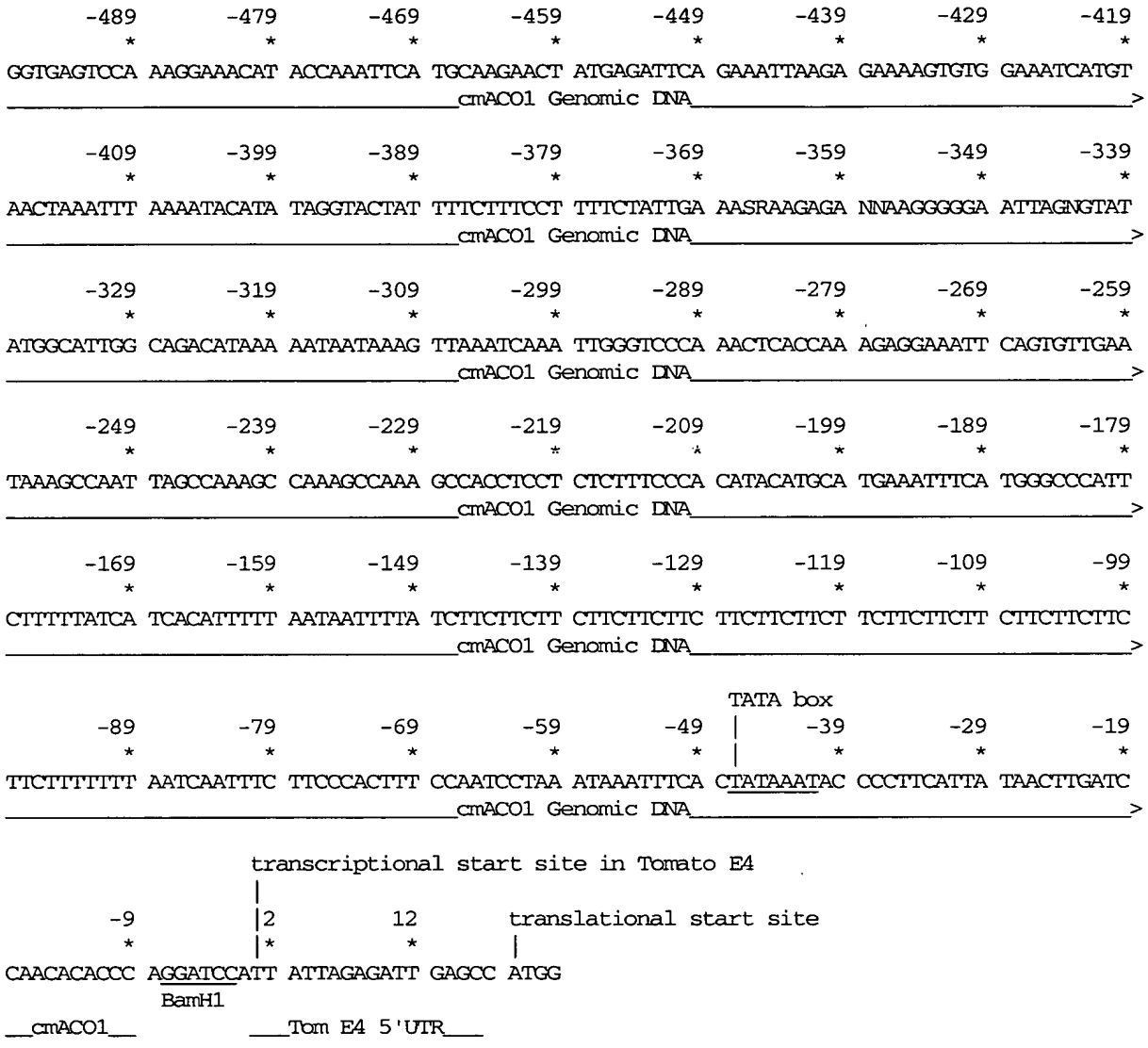

Fig. 2B

```
NEB 1233
|     -1669      -1659      -1649      -1639      -1629      -1619      -1609      -1599
|         *          *          *          *          *          *          *          *
AGCGGATAAC AATTTCACAC AGGAAACAGC TATGACCATG ATTACGCCAA GCTTGGTACC GAGCTCGGAT CCACTAGTAA
                                                    HindIII              -BamHI-
__________________Lac promoter___________________>
____________________________________pCR2.1____________________________________>

      -1589      -1579      -1569      -1559      -1549      -1539      -1529      -1519
          *          *          *          *          *          *          *          *
 CGGCCGCCAG TGTGCTGGAA TTCGGCTTGT AATACGACTC ACTATAGGGC ACGCGTGGTC CACGGCCCGG GCTGGTAACT
__________pCR2.1___________>
                                    _____________GenomeWalker Adaptor______________>
                                                                                ____>

      -1509      -1499      -1489      -1479      -1469      -1459      -1449      -1439
          *          *          *          *          *          *          *          *
AGAAGCTAAA GGACGACGTC AACATAATTA AAATTACTCC AAGATAATTA AAATTAAAAA TATCTTATAT TTTATGGCGT
________________________________MEL7 promoter__________________________________>

      -1429      -1419      -1409      -1399      -1389      -1379      -1369      -1359
          *          *          *          *          *          *          *          *
TACATCTTCC TTTCCTCTTC TTCTTTTTTC TGCTGCGATT TCTTCCCATC TATTTCTTCT TTTACTCTTA TTTTTTTCTT
________________________________MEL7 promoter__________________________________>

      -1349      -1339      -1329      -1319      -1309      -1299      -1289      -1279
          *          *          *          *          *          *          *          *
TACATTGTTT AGATTTGGGT AACCAAATCT GATTTCTTTC TATCGTCTTT CTTCTTTTTC TCTTTTTTTT TCCGCTGCGA
________________________________MEL7 promoter__________________________________>

-1269      -1259      -1249      -1239      -1229      -1219      -1209      -1199
    *          *          *          *          *          *          *          *
TTTCTTCCCA TTGTCTATCG TTTTTTCCTC TTTTTTTTTT TACATCGTAA CCAAATCTAA AAGATCGTAT ATAAAGAATC
________________________________MEL7 promoter__________________________________>

      -1189      -1179      -1169      -1159      -1149      -1139      -1129      -1119
          *          *          *          *          *          *          *          *
TTCAAAAAAA AAAATTGTTT AGATTGGAGT AGCCAAATTT AAACAATCGC GTAAAAAAAA TAAACGATCG TAGACAAATC
________________________________MEL7 promoter__________________________________>

      -1109      -1099      -1089      -1079      -1069      -1059      -1049      -1039
          *          *          *          *          *          *          *          *
TAAACGATCG TGCACAAAAA GATTTAAAAA AATCGTTTAG TCAAATCTAA ACAATTGTAT AACCAAATTA AACGATAGAA
________________________________MEL7 promoter__________________________________>

      -1029      -1019      -1009       -999       -989       -979       -969       -959
          *          *          *          *          *          *          *          *
TTGAAATAAT AAATCGGTTA GATTTGGCTA TCCAAATTTA AATGACCAAA TCTAAACGAT CGTATACCAA ATCTAAACGA
________________________________MEL7 promoter__________________________________>
```

Fig. 3A

```
     -949      -939      -929      -919      -909      -899      -889      -879
        *         *         *         *         *         *         *         *
TCGKATACCA AATCTAAATG ATCATGTACC AAATATATTA TGCACATTGT TGGCAGGGTG GTTGACGGAA CATTTTGTAT
_________________________________MEL7 promoter___________________________________>

     -869      -859      -849      -839      -829      -819      -809      -799
        *         *         *         *         *         *         *         *
ATTTTCTATT ATGGGTTTGT AGAATTTTTT CATTTTCGAA ATTGTTCTAT ACAATATAAA TATAAATATT TTACCACTTC
_________________________________MEL7 promoter___________________________________>

     -789      -779      -769      -759      -749      -739      -729      -719
        *         *         *         *         *         *         *         *
GTTATATTTT CGAAAAGACC CCTTAAATAA ATTGAATTCG CATATAATTA AAATTTTTTC CCAAAAAAAG TAGACTATGT
_________________________________MEL7 promoter___________________________________>

     -709      -699      -689      -679      -669      -659      -649      -639
        *         *         *         *         *         *         *         *
CTATCTAAAA ATTTGATTCC CAATATAGAA CAAATTCTCA AAATGAACAA ACATTTGAAA TTCTCGATAT AGAAAACATT
_________________________________MEL7 promoter___________________________________>

     -629      -619      -609      -599      -589      -579      -569      -559
        *         *         *         *         *         *         *         *
TACTTATTTT GAATTGGGAC ATATTCCAAA GTTTATTCCA AACGTAACTT TGAAGGAAAA GTTGATTGAG ATTACATCCA
_________________________________MEL7 promoter___________________________________>

     -549      -539      -529      -519      -509      -499      -489      -479
        *         *         *         *         *         *         *         *
TATTTTTGTT TTTCATATTG AATTTCATGG AAAATTAAAA TGCACACAAA ATGATGTATG AGATTAAACC AAAGTTTATC
_________________________________MEL7 promoter___________________________________>

     -469      -459      -449      -439      -429      -419      -409      -399
        *         *         *         *         *         *         *         *
GTTATTGAAT TCTTTTATTA AAAAACCAAC AAAATTTTAA AACTTGTTTG CAATAGACCA ATATAGTTAA TCCATCGTGG
_________________________________MEL7 promoter___________________________________>

     -389      -379      -369      -359      -349      -339      -329      -319
        *         *         *         *         *         *         *         *
TCTATTGTAG ATAAATTGTA ATATTTTGTT ATATTTAATA AATATTTTGA TTTATTTTGA TATATTTGTA TTTAGATAAC
_________________________________MEL7 promoter___________________________________>

     -309      -299      -289      -279      -269      -259      -249      -239
        *         *         *         *         *         *         *         *
AAAATTAAGA TTTAAATATT ATTTTATATC TTAATATAAA CATTTGTTAA TTTTTTCTAT TTTAGACCAT TTCTCTTATT
_________________________________MEL7 promoter___________________________________>

     -229      -219      -209      -199      -189      -179      -169      -159
        *         *         *         *         *         *         *         *
TTTATATAAC ATTTTAATAA CTAAATGATG TGACACACAC TAATATTATT TTTATCCAAA GAAAATAATG CTATAAAATA
_________________________________MEL7 promoter___________________________________>
```

Fig. 3B

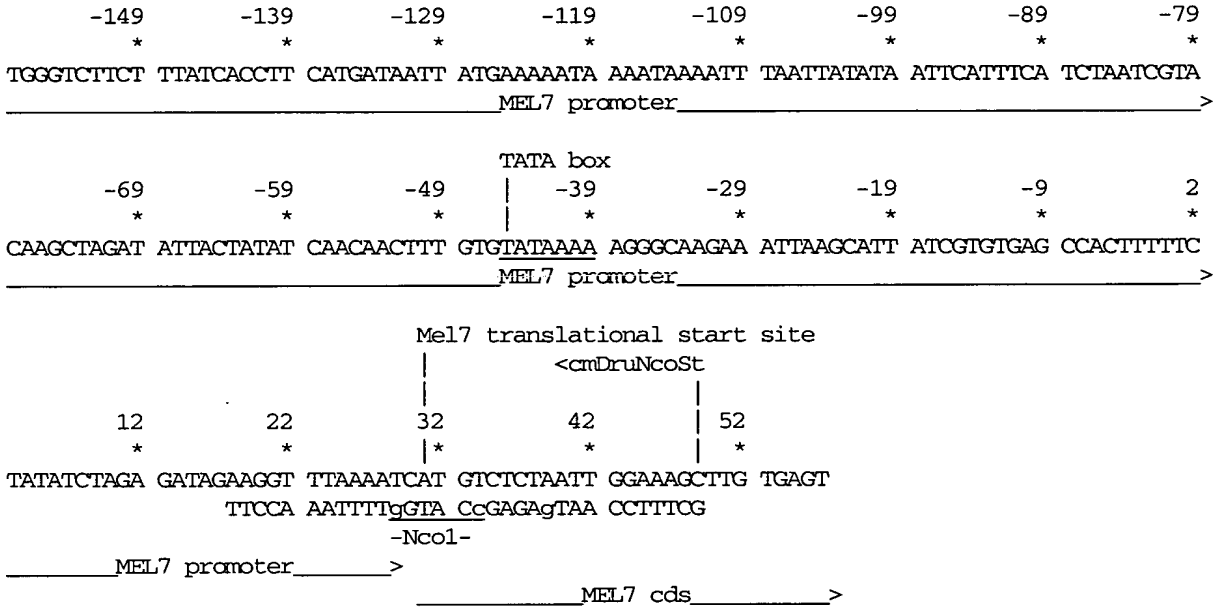

Fig. 3C

APPROVED BY DRAFTSMAN	O.G. FIG.	
	CLASS	SUBCLASS

```
                    NEB 1233
                        |
      -2158     -2148      -2138      -2128      -2118      -2108      -2098      -2088
          *     |  *          *          *          *          *          *          *
TTGTGTGGAA TTGTGAGCGG ATAACAATTT CACACAGGAA ACAGCTATGA CCATGATTAC GCCAAGCTTG GTACCGAGCT
____________________________________________pCR2.1______________________________________>
______________________________Lac promoter________________________________>

      -2078      -2068      -2058      -2048      -2038      -2028      -2018      -2008
          *          *          *          *          *          *          *          *
CGGATCCACT AGTAACGGCC GCCAGTGTGC TGGAATTCGG CTTACTATAG GGCACGCGTG GTCGACGGCC CGGGCTGGTC
       -SpeI--
______________________pCR2.1_______________________>
                                                   __________GenomeWalker Adaptor__________>
                                                                                          _>

      -1998      -1988      -1978      -1968      -1958      -1948      -1938      -1928
          *          *          *          *          *          *          *          *
CAATCACCGA ACATCATGTT ATGTAGGTGT CGGGAGATGC TACCTATCTG CTGATGTTGG TTTCTTTCTT TGAAAGATAC
_______________________________________MEL2 promoter_____________________________________>

      -1918      -1908      -1898      -1888      -1878      -1868      -1858      -1848
          *          *          *          *          *          *          *          *
TCTCCTGACT TTTTAGTTGT TGCATCTAGA GATGTCCTCT ATTATTTTGA CACCTTTTCT TCTGACGGTG TAGAGCAACA
_______________________________________MEL2 promoter_____________________________________>

      -1838      -1828      -1818      -1808      -1798      -1788      -1778      -1768
          *          *          *          *          *          *          *          *
CAAAAAAATC TTGAATTTCT ATTAATGGAA TGAGCTATAT CTATACAAAT TGGAACCATA TGACAAATTA AGAAGATTCC
_______________________________________MEL2 promoter_____________________________________>

      -1758      -1748      -1738      -1728      -1718      -1708      -1698      -1688
          *          *          *          *          *          *          *          *
TTTCTGAATA TTATGCAATA GAAATACTCA CCAGGTGTAA TGATGCACCT TATAGAGAAA ACTTCGACGA ACAAGAGACG
_______________________________________MEL2 promoter_____________________________________>

      -1678      -1668      -1658      -1648      -1638      -1628      -1618      -1608
          *          *          *          *          *          *          *          *
GCTACTAAGT TTTAGTAGAA TGGGTATTTC TGACCTACTA TGTTTCAGGA TGCGAGGATC TTCATGGTCA ATTGTGACCG
_______________________________________MEL2 promoter_____________________________________>

      -1598      -1588      -1578      -1568      -1558      -1548      -1538      -1528
          *          *          *          *          *          *          *          *
ATGGTGGAGA ACTGAAAATA TTTCCCATCT CAATGAAATA CTAAAACAAC ATATCTTAGA GGTTGAACTA TTTGATATCT
_______________________________________MEL2 promoter_____________________________________>

      -1518      -1508      -1498      -1488      -1478      -1468      -1458      -1448
          *          *          *          *          *          *          *          *
AGGGAATACA TTTTATGGGA CCGTTTTCTA GTTGTTCCGG CAAACACGCA TTCGAGACGG GACGTTCATG TCGCATACCA
_______________________________________MEL2 promoter_____________________________________>
```

Fig. 4A

```
     -1438      -1428      -1418      -1408      -1398      -1388      -1378      -1368
         *          *          *          *          *          *          *          *
CGGAGGATCC GCATGTAAGC TATCCAAGCA ATACTTCTAC CCTTTTTGTC TTCTTTAATA ATATATTTTT TACTTACTAA
________________________________MEL2 promoter_________________________________________>

     -1358      -1348      -1338      -1328      -1318      -1308      -1298      -1288
         *          *          *          *          *          *          *          *
GATAGTTTCT AAATTTGTTG TAGAATCGAA TGCTGGAACT TCAGTCCTAG CTTACCTCAG TGGGTACTTA GCCACTCTCT
________________________________MEL2 promoter_________________________________________>

     -1278      -1268      -1258      -1248      -1238      -1228      -1218      -1208
         *          *          *          *          *          *          *          *
GGGGACAAGA TATGCGAGAT GGCGTTGGAT AGACGATTGG ACTACTCAAA AGGCCTTGGT TGGGGACCTA AGTCTAGGGC
________________________________MEL2 promoter_________________________________________>

     -1198      -1188      -1178      -1168      -1158      -1148      -1138      -1128
         *          *          *          *          *          *          *          *
CCACAAGACG GCCAGTGTGA GTAGTTCCAC GACCTCATGT TTGTAGTCCA CGGTAGAGCT CCAATTATGG ACTAAGCTTG
________________________________MEL2 promoter_________________________________________>

     -1118      -1108      -1098      -1088      -1078      -1068      -1058      -1048
         *          *          *          *          *          *          *          *
ATCAAGCTGT GCAACGGATT GAAGAACAAA CAAGAAATCA CGATGCGTTA GCTTCAAAAG TGGAATGAAT GTGAAAGTTC
________________________________MEL2 promoter_________________________________________>

     -1038      -1028      -1018      -1008       -998       -988       -978       -968
         *          *          *          *          *          *          *          *
ATAGAAGACA TGAGTCGGGC ACAGTAAGGA CCACAACATT ATCTTTAGCT TTGCGATACG TATANNTATT TCCATTATTC
________________________________MEL2 promoter_________________________________________>

      -958       -948       -938       -928       -918       -908       -898       -888
         *          *          *          *          *          *          *          *
TTAAGTTTTT GAATTACAGT ATTCAGTGAT GATATGCATA TATATGTACC AAACGTAGCC ACTTTTGTAT AATTGTAGGA
________________________________MEL2 promoter_________________________________________>

      -878       -868       -858       -848       -838       -828       -818       -808
         *          *          *          *          *          *          *          *
CCTGTGGTGT AGAATGGCAT ATGAGGCTCG TTAAAAGACA TACGATTTTC TTTGTGCTTT TTTTAACGAG GAATATTTTT
________________________________MEL2 promoter_________________________________________>

      -798       -788       -778       -768       -758       -748       -738       -728
         *          *          *          *          *          *          *          *
TATTTGTATT ATGAACTTTA TTACATTTCT TGAATTTCTT TGTATTATGA AGATTTAATT TTTTGTTGAA TTTTTGTTTG
________________________________MEL2 promoter_________________________________________>

      -718       -708       -698       -688       -678       -668       -658       -648
         *          *          *          *          *          *          *          *
TATTTTGTAA TTTACTAATT TATTTTAAAT TTTCTTTAAT TGAATCGATA ACGAATGCAA ATATTTTACG AAAAAAACTT
________________________________MEL2 promoter_________________________________________>
```

Fig. 4B

```
        -638       -628       -618       -608       -598       -588       -578       -568
           *          *          *          *          *          *          *          *
ATAGGAAAAT ATTTCAAAAA AATAAAAAAT TACATATTTA AAATATTTTT CGACGCATTA CATATGTGGA AAATATGGTG
________________________________MEL2 promoter__________________________________>

        -558       -548       -538       -528       -518       -508       -498       -488
           *          *          *          *          *          *          *          *
CAAACATCAC ATCGGGGATG GTTATTACCG ACGCATGAAT GACACCGAAT ATATAAACGT AAGGAATAGT TATTCCTGAC
________________________________MEL2 promoter__________________________________>

        -478       -468       -458       -448       -438       -428       -418       -408
           *          *          *          *          *          *          *          *
GCATAACTGC TGTCGGAACT GTGGAAGTTA GTTCTCGACA TTATTAACAC TTACGTCGAC GTTTTTATGC ATCGGGAGTC
________________________________MEL2 promoter__________________________________>

        -398       -388       -378       -368       -358       -348       -338       -328
           *          *          *          *          *          *          *          *
GCTCCACTTC TTGTAGTGAA GAAATTTTGC CTATAATGTC GGTTTAAAAC CGACATTAAA GGCCAAATTT CTTCTAGTGC
________________________________MEL2 promoter__________________________________>
                    ______________Imperfect inverted repeat________________

        -318       -308       -298       -288       -278       -268       -258       -248
           *          *          *          *          *          *          *          *
ATAATCAATA TMCAAAAGTT CAATTCCAAA AATTACATTT CTCTAGAAAT TCCGTGTGAA CAATTGTCAT AAAGGTTTTA
________________________________MEL2 promoter__________________________________>

        -238       -228       -218       -208       -198       -188       -178       -168
           *          *          *          *          *          *          *          *
AGTGAATTGA AAATTTCAAA ACGTAATTGG ATTAAGCGAG AAAATTATTT TAATCACCAT TCAAAAGTTA TTAACAATGA
________________________________MEL2 promoter__________________________________>

        -158       -148       -138       -128       -118       -108        -98        -88
           *          *          *          *          *          *          *          *
AAAATATGGA AGATAAGATT TCAAAATTAC GTAATTTACT TCTACGTTTC TTTCTTTCCC CTTTAGTAAC TTCACTCATA
________________________________MEL2 promoter__________________________________>

    TATA box
    |   -78        -68        -58        -48        -38        -28        -18         -8
    |      *          *          *          *          *          *          *          *
TCTTTATATA CGTTCCATCC CTTCACATTC TCATACAAAA TTCTCTTTCA ATATCAACTC TCCTCTCTTA ACTCACCCTT
________________________________MEL2 promoter__________________________________>

      MEL2 translational start site
      |       <MEL2_Nco_R
      1 3           13    |
      * *            *    |
TTTTCAAATG GAAACAATGC AAAC
 AAAGggTAC CTTTGTTACG TTTG
    -NcoI--
__pro__
      _____MEL2 cds______
```

Fig. 4C

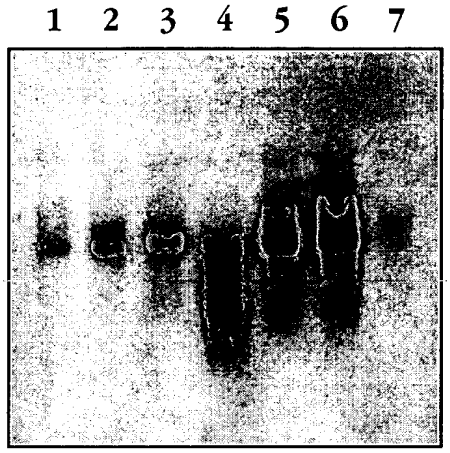

Fig. 5A

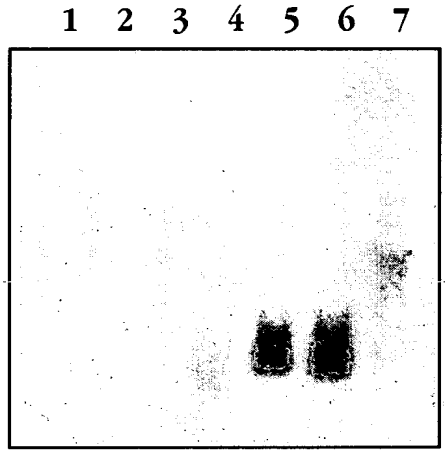

Fig. 5C

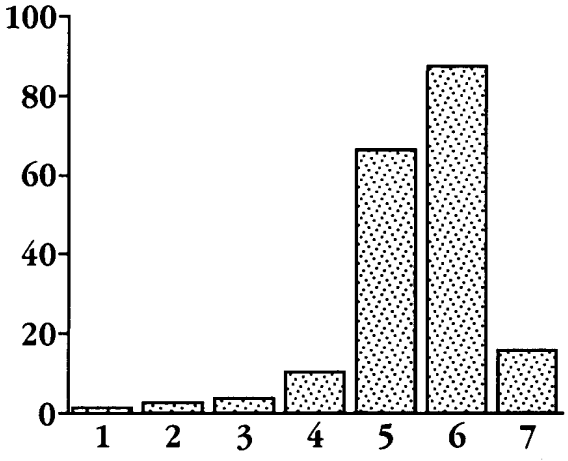

Fig. 5B

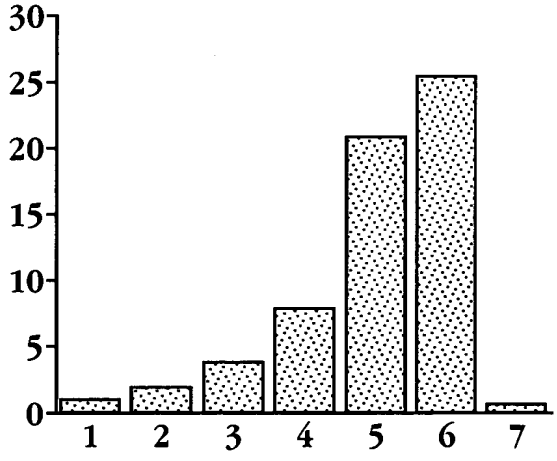

Fig. 5D

```
      -968       -958       -948       -938       -928       -918       -908       -898
        *          *          *          *          *          *          *          *
TGGAATTGTG AGCGGATAAC AATTTCACAC AGGAAACAGC TATGACCATG ATTACGCCAA GCTTGGTACC GAGCTCGGAT
                                                                                  BamHI>
_____________________________________pCR2.1_____________________________________>
_____________________Lac promoter_____________________>

      -888       -878       -868       -858       -848       -838       -828       -818
        *          *          *          *          *          *          *          *
CCACTAGTAA CGGCCGCCAG TGTGCTGGAA TTCGGCTTAC TATAGGGCAC GCGTGGTCGA CGGCCCGGGC TGGTAAATTT
__________pCR2.1__________
                                    _________GenomeWalker Adaptor__________>
                                                                        __6E__>

      -808       -798       -788       -778       -768       -758       -748       -738
        *          *          *          *          *          *          *          *
TGAAAAGTTA GGAGATATTT TTTACATATA AGAGATATTT TTTATAATGT AACATTTTTT TTACTAGACG GTTGAGTCGA
_____________________________6E melon genomic DNA_____________________________>

      -728       -718       -708       -698       -688       -678       -668       -658
        *          *          *          *          *          *          *          *
GTTAGGTTAA AGAAAGGAAA ACTATAAAAT AATTTTTAAT TATTAAATAC ATAAACAATA CTTTGTATTC TATATTAATT
_____________________________6E melon genomic DNA_____________________________>

      -648       -638       -628       -618       -608       -598       -588       -578
        *          *          *          *          *          *          *          *
AAAATGACTA TTGAATTGTT AAGATGTAGG TATCTAAGGA CAAGAAGTCT CGAGTTCAAA TCTTCAACCT CAAAATATAC
_____________________________6E melon genomic DNA_____________________________>

      -568       -558       -548       -538       -528       -518       -508       -498
        *          *          *          *          *          *          *          *
TGCAAGATAG TAACTAATGA ATTATATTTG ACTAAATCAT GTAGCAAAAG AAAATCAAAT TTATCATGTT AAATATGGTC
_____________________________6E melon genomic DNA_____________________________>

      -488       -478       -468       -458       -448       -438       -428       -418
        *          *          *          *          *          *          *          *
AAGCCGGAGC ATTAACAACA ACAATTCATA TTTGTGGTTG ATAGTACTTG ACTAGAATTT AGAGAGTACT TGACTAGAAT
_____________________________6E melon genomic DNA_____________________________>

      -408       -398       -388       -378       -368       -358       -348       -338
        *          *          *          *          *          *          *          *
AAAAATTGGG GGACCCACTA CGACGTCAGC TTGCCTTGCT TAGCAATTAA GCTATCACCT CTTAGTCTAT AGCTTCGTGC
_____________________________6E melon genomic DNA_____________________________>
```

Fig. 6A

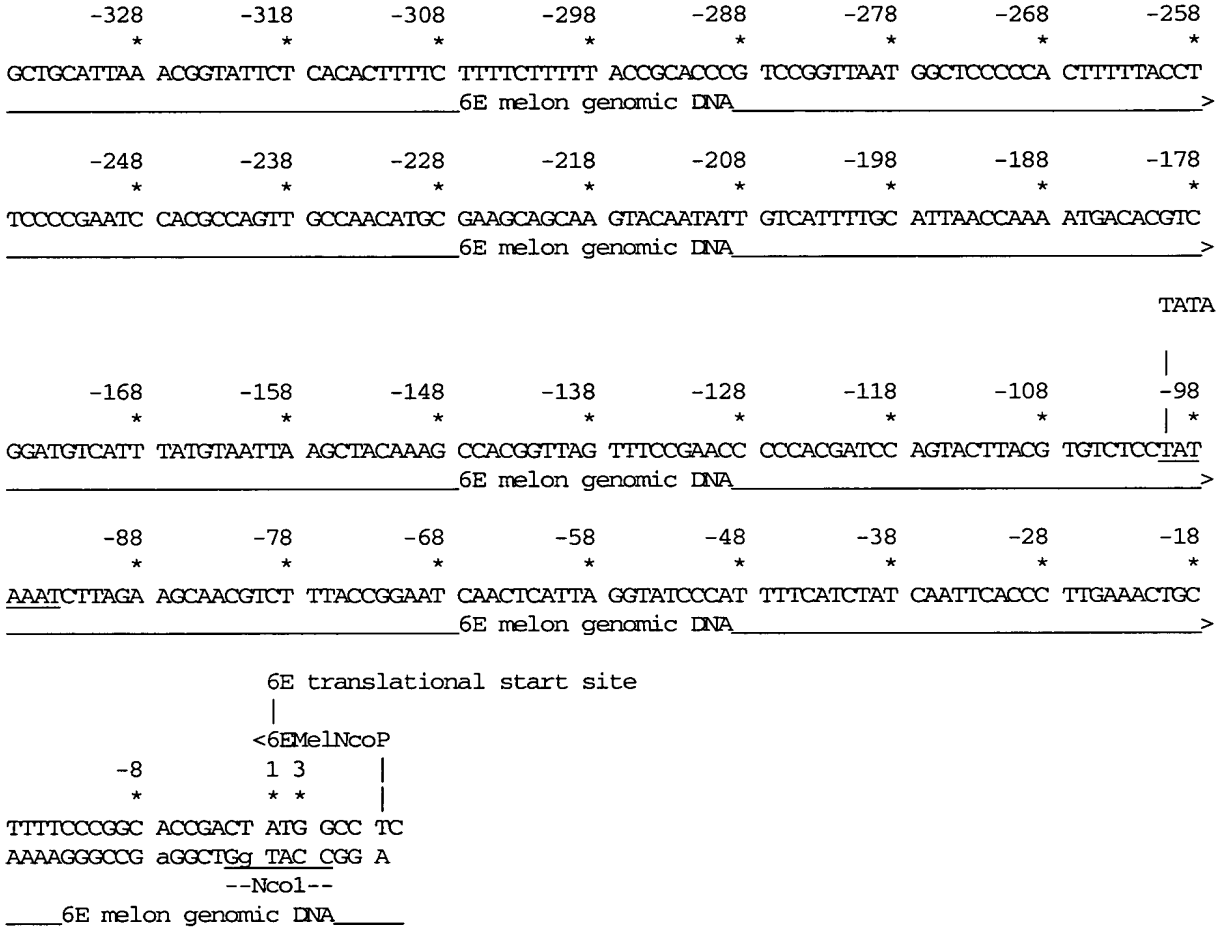

Fig. 6B

```
     -2442      -2432      -2422      -2412      -2402      -2392      -2382      -2372
         *          *          *          *          *          *          *          *
AAGCTTGCAT GCCTGCAGGT CGACTCTAGA TCAATCAAAC ATTTATTTAA ATAGAACGTT TTAGTGGTTT TTGGATTTTA
-Hind3
___________pUC-19___________>
                            _______________2F melon genomic DNA_________________>

     -2362      -2352      -2342      -2332      -2322      -2312      -2302      -2292
         *          *          *          *          *          *          *          *
TTTATCTTTT TTATTATTTA CATTCAATTT AGATTTAACT CTTGCAGAAG ATGGAGGAAG AGAATTTTTA GAAATTGAAC
______________________________2F melon genomic DNA_______________________________>

     -2282      -2272      -2262      -2252      -2242      -2232      -2222      -2212
         *          *          *          *          *          *          *          *
TGAAATAGAC TTAATTATTA AAAATCAAAA GAAAAATGGT GCCAACAAAG GTGACTAAGA GTGTAATGAA TTGGAATTAG
______________________________2F melon genomic DNA_______________________________>

     -2202      -2192      -2182      -2172      -2162      -2152      -2142      -2132
         *          *          *          *          *          *          *          *
AACTTTCCTT CTGTATAGAT ATAATTGATG TTTTCCTTAA CTTTATTTTT ATGGTGGTTA TTTATTAATA ACTGAATTTT
______________________________2F melon genomic DNA_______________________________>

     -2122      -2112      -2102      -2092      -2082      -2072      -2062      -2052
         *          *          *          *          *          *          *          *
TAAGAGTTCT TTTAATAACC AAATGTTATA GGATTCAATT GATTGTTTTA TGAGATTAGG CAAACACTTT ATATTGGAGA
______________________________2F melon genomic DNA_______________________________>

     -2042      -2032      -2022      -2012      -2002      -1992      -1982      -1972
         *          *          *          *          *          *          *          *
AATAATTTAG TGTAGAAAGT AATTTTCATT TTGGATTGTT TAGATGAACA TCAAATCTTG CAACAACATT CAGTTAAGTA
______________________________2F melon genomic DNA_______________________________>

     -1962      -1952      -1942      -1932      -1922      -1912      -1902      -1892
         *          *          *          *          *          *          *          *
TATATAAATA TATAGAGCCA CCAACCTCAA ATACAATATC TTCGGAAGCA AAATATTATA CATAATATGG AAAGAAGAGT
______________________________2F melon genomic DNA_______________________________>

     -1882      -1872      -1862      -1852      -1842      -1832      -1822      -1812
         *          *          *          *          *          *          *          *
AGTACTGGTA CATGAATCTT ACGAAGAATT TAAGTATTAT TGGCTTTTCC AATGCAGAAG TCTCAACAAA TCACATTTTA
______________________________2F melon genomic DNA_______________________________>

     -1802      -1792      -1782      -1772      -1762      -1752      -1742      -1732
         *          *          *          *          *          *          *          *
AAAACCGATT GAATAAACAT GCAAGTAAGA CTTTTGAAAA AACAAGCATT CAAACCTCAT ATCAATTATC TCTATATGCA
______________________________2F melon genomic DNA_______________________________>

     -1722      -1712      -1702      -1692      -1682      -1672      -1662      -1652
         *          *          *          *          *          *          *          *
AAATGTTAGG TCAAATGAGT AATGAAATTA AGGACAAATC AACTAAAAAG AATCAATAAA GTGAATCGAA AAGAAACAAA
______________________________2F melon genomic DNA_______________________________>
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Fig. 7A

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      -1642      -1632      -1622      -1612      -1602      -1592      -1582      -1572
          *          *          *          *          *          *          *          *
TATCAATCAA ACCTAATGTA TACGTGATTG ATGATGCAGT GTGTTTTGAG ATATGGACAT TTTGATAAAC AACAAACCTC
______________________________2F melon genomic DNA_______________________________>

      -1562      -1552      -1542      -1532      -1522      -1512      -1502      -1492
          *          *          *          *          *          *          *          *
CACTCCAATA CGAGAAGAGA GGCATTGAGT GACAGATTAG TGCCCTATTG AAGAGGGTAA GTCCAAAACA AAACAAACAC
______________________________2F melon genomic DNA_______________________________>

      -1482      -1472      -1462      -1452      -1442      -1432      -1422      -1412
          *          *          *          *          *          *          *          *
AAAACATGGT GAAGAAATGT TATGAATAAA TGGCAGGGAA AGACATGGTT GTACATGTGG TGTGAGTTTT CTTCTTTCAA
______________________________2F melon genomic DNA_______________________________>

      -1402      -1392      -1382      -1372      -1362      -1352      -1342      -1332
          *          *          *          *          *          *          *          *
ATCTGTGAAT AAATTGGATT ACGACCCAAC AAGAGAAACA CTGTTTGGAA ACCATGACAG GGCTACCCCA TGGCGTGAAT
                                                                        -NcoI--
______________________________2F melon genomic DNA_______________________________>

      -1322      -1312      -1302      -1292      -1282      -1272      -1262      -1252
          *          *          *          *          *          *          *          *
ATCAAGTATT TAATTAATTA AGCTCTCATC CCCGCCATTC GTTTTTTTAT TCGATTCATA TCTTATATTT TATATACGAA
______________________________2F melon genomic DNA_______________________________>

      -1242      -1232      -1222      -1212      -1202      -1192      -1182      -1172
          *          *          *          *          *          *          *          *
TAATTCTTGA GTTTGATTTC AATTTAGTTC GTCAATAGTA ATATTTTAAA CTATGTTAAT ATATAAAAAG TAAATGCGAA
______________________________2F melon genomic DNA_______________________________>

      -1162      -1152      -1142      -1132      -1122      -1112      -1102      -1092
          *          *          *          *          *          *          *          *
TGATTCTATT AGTATTCACT TTATATCACT CCTTCTTAGA GTAAAGTTTT TAAAGTGGGA AGGGAAATGG AATACGACGT
______________________________2F melon genomic DNA_______________________________>

      -1082      -1072      -1062      -1052      -1042      -1032      -1022      -1012
          *          *          *          *          *          *          *          *
GTGATTGGTA GTTAAATTTC CTTATCGACG AGGTTACTGT TTCCTTACTT ATATATATGG AGTCATCCTC AATTTTTCAA
______________________________2F melon genomic DNA_______________________________>

      -1002       -992       -982       -972       -962       -952       -942       -932
          *          *          *          *          *          *          *          *
CTCTCAACTT CCAATTATAC AAGCAAAACA TTCAATACCA TACATGCATC TTTTTAGAAA GAAAAGAAGT TCTCTCTTGG
______________________________2F melon genomic DNA_______________________________>

       -922       -912       -902       -892       -882       -872       -862       -852
          *          *          *          *          *          *          *          *
ACTTTTTTTT TCAATTCAAC TATGCACCTT TGTTATTTTA GTTTTATAAT TTTTGTTGTT TCTTCCGTTT AATCAAGTTG
______________________________2F melon genomic DNA_______________________________>
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Fig. 7B

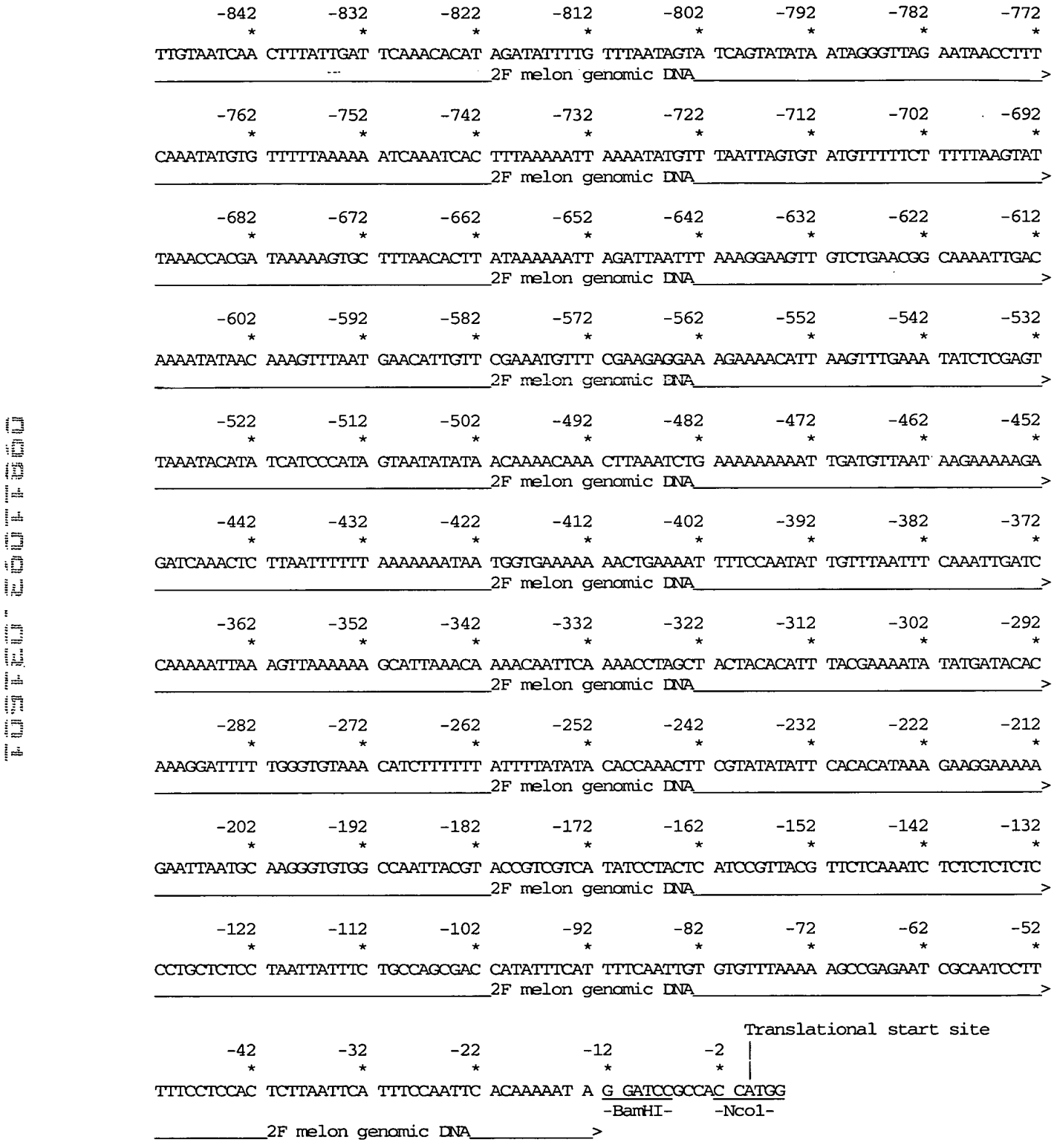

Fig. 7C

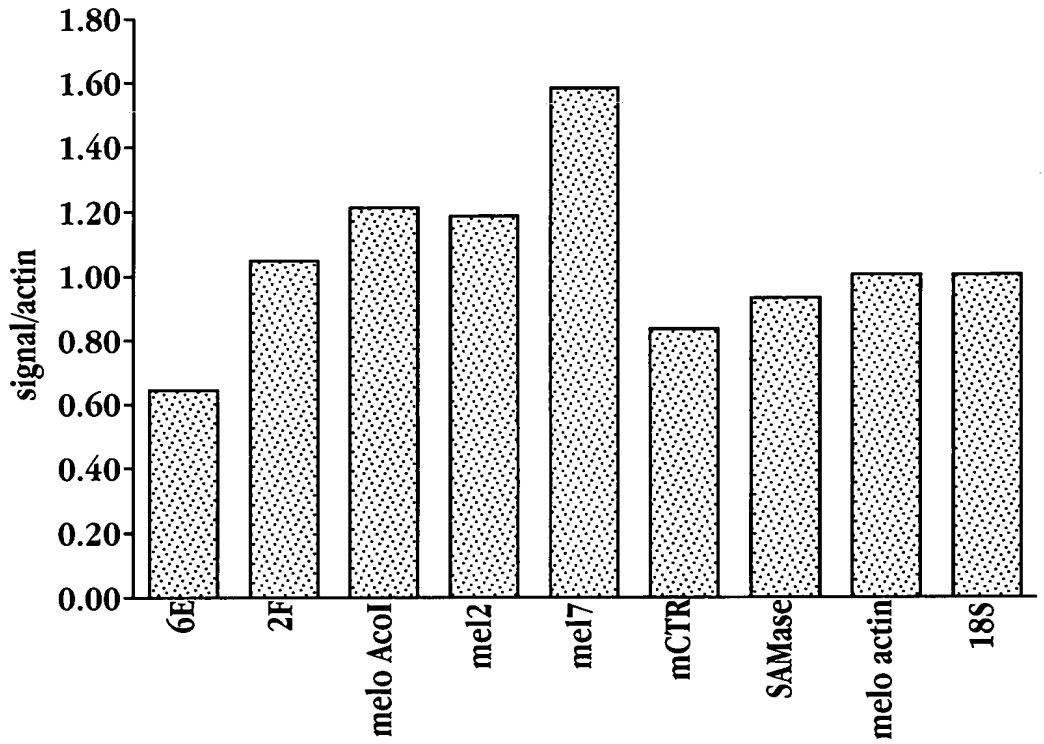

Fig. 8